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16 August 2013

Mike Rigby
Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax, VA 22031
RE: EC Durango Pilot

Enclosed are the results of analyses for samples received by the laboratory on 08/06/13 16:20.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water.



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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Raw -1	1308065-01	Water	08/06/13 14:00	08/06/13 16:20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

Raw -1**1308065-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate*	10.0	10.0		mg/L	1	08/13/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/13/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	1	08/13/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	1	08/13/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	2380	10.0		uS/cm	1	08/06/13	2510 B		MJV
pH*	5.88			pH Units	1	08/06/13	EPA150.1		MJV
Phosphate as P, Total	0.0550	0.0500	0.0250	mg/L	1	08/09/13	EPA365.3		KLJ
Sulfate	1660	200	21.6	mg/L	20	08/14/13	4500-SO42- E		ABP
TDS*	2460	10.0		mg/L	1	08/08/13	EPA160.1		ABP

Total Recoverable Metals by ICP (E200.7)

Aluminum*	5.19	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	168	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	27.7	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	13.0	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

Dissolved Metals by ICP

Aluminum*	3.80	1.00	0.030	mg/L	20	08/09/13	EPA200.7		JGS
Calcium*	466	20.0	0.078	mg/L	20	08/09/13	EPA200.7		JGS
Iron*	168	1.00	0.079	mg/L	20	08/09/13	EPA200.7		JGS
Magnesium*	32.4	20.0	0.379	mg/L	20	08/09/13	EPA200.7		JGS
Potassium*	<20.0	20.0	7.28	mg/L	20	08/09/13	EPA200.7		JGS
Silica (SiO2)	<21.4	21.4	14.8	mg/L	20	08/09/13	Calc		JGS
Silicon	<10.0	10.0	6.91	mg/L	20	08/09/13	EPA200.7		JGS
Sodium*	<20.0	20.0	0.081	mg/L	20	08/09/13	EPA200.7		JGS

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

Raw -1**1308065-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	<0.0100	0.0100	0.0040	mg/L	100	08/14/13	EPA200.8		JGS
Copper*	<0.100	0.100	0.0127	mg/L	100	08/14/13	EPA200.8		JGS
Lead*	<0.0500	0.0500	0.0030	mg/L	100	08/14/13	EPA200.8		JGS
Manganese*	49.2	0.0500	0.0418	mg/L	100	08/14/13	EPA200.8		JGS
Zinc*	18.4	0.500	0.0631	mg/L	100	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	<0.0020	0.0020	0.0008	mg/L	20	08/08/13	EPA200.8		JGS
Copper*	<0.0020	0.0020	0.0003	mg/L	20	08/08/13	EPA200.8		JGS
Lead*	<0.0100	0.0100	0.0006	mg/L	20	08/08/13	EPA200.8		JGS
Manganese*	48.8	0.0100	0.0084	mg/L	20	08/08/13	EPA200.8		JGS
Zinc*	19.6	0.0200	0.0025	mg/L	20	08/08/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0010	0.0010	0.0001	mg/L	5	08/07/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/07/13	245.1		JGS
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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308104 - General Prep - Wet Chem

Blank (B308104-BLK1)

Prepared: 08/08/13 Analyzed: 08/09/13

Phosphate as P, Total ND 0.0500 mg/L

LCS (B308104-BS1)

Prepared: 08/08/13 Analyzed: 08/09/13

Phosphate as P, Total 0.465 0.0500 mg/L 0.500 93.0 85-115

LCS Dup (B308104-BSD1)

Prepared: 08/08/13 Analyzed: 08/09/13

Phosphate as P, Total 0.521 0.0500 mg/L 0.500 104 85-115 11.4 20

Batch B308108 - General Prep - Wet Chem

Duplicate (B308108-DUP2)

Source: 1308064-01

Prepared & Analyzed: 08/06/13

Conductivity 1250 10.0 uS/cm 1180 5.42 20

Reference (B308108-SRM2)

Prepared & Analyzed: 08/06/13

Conductivity 1500 uS/cm 1500 100 94-106

Batch B308112 - General Prep - Wet Chem

Duplicate (B308112-DUP2)

Source: 1308059-01

Prepared & Analyzed: 08/06/13

pH 8.31 pH Units 8.32 0.120 20

Reference (B308112-SRM1)

Prepared & Analyzed: 08/06/13

pH 8.89 pH Units 9.05 98.2 90-110

Batch B308124 - General Prep - Wet Chem

Blank (B308124-BLK1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride ND 10.0 mg/L

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Reported:
08/16/13 13:29

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308124 - General Prep - Wet Chem

LCS (B308124-BS1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride	97.0	10.0	mg/L	100	97.0	85-115			
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LCS Dup (B308124-BSD1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride	98.0	10.0	mg/L	100	98.0	85-115	1.03	20	
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Batch B308129 - General Prep - Wet Chem

Blank (B308129-BLK1)

Prepared: 08/12/13 Analyzed: 08/13/13

Alkalinity, Bicarbonate	ND	10.0	mg/L						
Alkalinity, Carbonate	ND	10.0	mg/L						
Alkalinity, Hydroxide	ND	10.0	mg/L						
Alkalinity, Total	ND	10.0	mg/L						

LCS (B308129-BS1)

Prepared: 08/12/13 Analyzed: 08/13/13

Alkalinity, Bicarbonate	ND	10.0	mg/L			85-115			
Alkalinity, Carbonate	ND	10.0	mg/L			85-115			
Alkalinity, Hydroxide	ND	10.0	mg/L			85-115			
Alkalinity, Total	103	10.0	mg/L	100	103	85-115			

LCS Dup (B308129-BSD1)

Prepared: 08/12/13 Analyzed: 08/13/13

Alkalinity, Bicarbonate	ND	10.0	mg/L			85-115		20	
Alkalinity, Carbonate	ND	10.0	mg/L			85-115		20	
Alkalinity, Hydroxide	ND	10.0	mg/L			85-115		20	
Alkalinity, Total	103	10.0	mg/L	100	103	85-115	0.00	20	

Batch B308146 - General Prep - Wet Chem

Blank (B308146-BLK1)

Prepared & Analyzed: 08/08/13

TDS	ND	10.0	mg/L						
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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308146 - General Prep - Wet Chem

Duplicate (B308146-DUP1)

Source: 1308017-01

Prepared & Analyzed: 08/08/13

TDS	20900	10.0	mg/L		21000			0.526	20	
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Batch B308147 - General Prep - Wet Chem

Blank (B308147-BLK1)

Prepared & Analyzed: 08/14/13

Sulfate	ND	10.0	mg/L							
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LCS (B308147-BS1)

Prepared & Analyzed: 08/14/13

Sulfate	50.0	10.0	mg/L	50.0		100	85-115			
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LCS Dup (B308147-BSD1)

Prepared & Analyzed: 08/14/13

Sulfate	50.0	10.0	mg/L	50.0		100	85-115	0.00	20	
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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308153 - EPA 200.2

Blank (B308153-BLK1)

Prepared & Analyzed: 08/15/13

Aluminum	ND	0.050	mg/L							
Iron	ND	0.050	mg/L							
Silicon	ND	0.500	mg/L							

LCS (B308153-BS1)

Prepared & Analyzed: 08/15/13

Aluminum	4.38	0.050	mg/L	4.00		109	85-115			
Iron	4.39	0.050	mg/L	4.00		110	85-115			
Silicon	3.93	0.500	mg/L	4.00		98.3	85-115			

LCS Dup (B308153-BSD1)

Prepared & Analyzed: 08/15/13

Aluminum	4.41	0.050	mg/L	4.00		110	85-115	0.851	20	
Iron	4.39	0.050	mg/L	4.00		110	85-115	0.0417	20	
Silicon	3.96	0.500	mg/L	4.00		99.0	85-115	0.712	20	

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Reported:
08/16/13 13:29

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308065 - Dissolved Metals, E200.7/E200.8

Blank (B308065-BLK1)

Prepared: 08/08/13 Analyzed: 08/09/13

Aluminum	ND	0.050	mg/L
Calcium	ND	1.00	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

LCS (B308065-BS1)

Prepared: 08/08/13 Analyzed: 08/09/13

Aluminum	5.18	0.050	mg/L	5.00	104	85-115
Calcium	5.31	1.00	mg/L	5.00	106	85-115
Iron	5.38	0.050	mg/L	5.00	108	85-115
Magnesium	27.8	1.00	mg/L	25.0	111	85-115
Potassium	10.1	1.00	mg/L	10.0	101	85-115
Silicon	5.05	0.500	mg/L	5.00	101	85-115
Sodium	8.10	1.00	mg/L	8.10	100	85-115

LCS Dup (B308065-BSD1)

Prepared: 08/08/13 Analyzed: 08/09/13

Aluminum	5.22	0.050	mg/L	5.00	104	85-115	0.816	20
Calcium	5.34	1.00	mg/L	5.00	107	85-115	0.622	20
Iron	5.39	0.050	mg/L	5.00	108	85-115	0.338	20
Magnesium	27.9	1.00	mg/L	25.0	112	85-115	0.558	20
Potassium	9.91	1.00	mg/L	10.0	99.1	85-115	1.76	20
Silicon	5.08	0.500	mg/L	5.00	102	85-115	0.755	20
Sodium	7.99	1.00	mg/L	8.10	98.6	85-115	1.39	20

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Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308133 - EPA 200.2M

Blank (B308133-BLK1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	ND	0.0001	mg/L							
Copper	0.0007	0.0001	mg/L							B3
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	0.0042	0.0010	mg/L							B3

LCS (B308133-BS1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	0.0508	0.0001	mg/L	0.0500		102	85-115			
Copper	0.0503	0.0001	mg/L	0.0500		101	85-115			
Lead	0.0481	0.0005	mg/L	0.0500		96.2	85-115			
Manganese	0.0461	0.0005	mg/L	0.0500		92.2	85-115			
Zinc	0.0576	0.0010	mg/L	0.0500		115	75-125			

LCS Dup (B308133-BSD1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	0.0514	0.0001	mg/L	0.0500		103	85-115	1.23	20	
Copper	0.0516	0.0001	mg/L	0.0500		103	85-115	2.60	20	
Lead	0.0495	0.0005	mg/L	0.0500		98.9	85-115	2.85	20	
Manganese	0.0473	0.0005	mg/L	0.0500		94.6	85-115	2.67	20	
Zinc	0.0510	0.0010	mg/L	0.0500		102	75-125	12.2	20	

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08/16/13 13:29

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308060 - Dissolved Metals, E200.7/E200.8

Blank (B308060-BLK1)

Prepared & Analyzed: 08/08/13

Cadmium	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							

LCS (B308060-BS1)

Prepared & Analyzed: 08/08/13

Cadmium	0.0473	0.0001	mg/L	0.0500		94.6	85-115			
Copper	0.0512	0.0001	mg/L	0.0500		102	85-115			
Lead	0.0478	0.0005	mg/L	0.0500		95.7	85-115			
Manganese	0.0482	0.0005	mg/L	0.0500		96.4	85-115			
Zinc	0.0450	0.0010	mg/L	0.0500		89.9	85-115			

LCS Dup (B308060-BSD1)

Prepared & Analyzed: 08/08/13

Cadmium	0.0478	0.0001	mg/L	0.0500		95.6	85-115	1.08	20	
Copper	0.0523	0.0001	mg/L	0.0500		105	85-115	2.18	20	
Lead	0.0468	0.0005	mg/L	0.0500		93.6	85-115	2.24	20	
Manganese	0.0481	0.0005	mg/L	0.0500		96.2	85-115	0.115	20	
Zinc	0.0461	0.0010	mg/L	0.0500		92.2	85-115	2.54	20	

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Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308047 - EPA 245.1/7470

Blank (B308047-BLK1)

Prepared: 08/06/13 Analyzed: 08/07/13

Mercury ND 0.0002 mg/L

LCS (B308047-BS1)

Prepared: 08/06/13 Analyzed: 08/07/13

Mercury 0.0023 0.0002 mg/L 0.00200 115 85-115

LCS Dup (B308047-BSD1)

Prepared: 08/06/13 Analyzed: 08/07/13

Mercury 0.0023 0.0002 mg/L 0.00200 115 85-115 0.348 20

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Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

Dissolved Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B308046 - EPA 245.1/7470

Blank (B308046-BLK1)

Prepared: 08/06/13 Analyzed: 08/07/13

Mercury ND 0.0002 mg/L

LCS (B308046-BS1)

Prepared: 08/06/13 Analyzed: 08/07/13

Mercury 0.0023 0.0002 mg/L 0.00200 115 85-115

LCS Dup (B308046-BSD1)

Prepared: 08/06/13 Analyzed: 08/07/13

Mercury 0.0023 0.0002 mg/L 0.00200 115 85-115 0.348 20

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Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax VA, 22031

Project: EC Durango Pilot
Project Name / Number: BLM
Project Manager: Mike Rigby

Reported:
08/16/13 13:29

Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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CHAIN OF CUSTODY RECORD

Page ____ of ____

Client: Waste Water Mgmt, Inc

Contact: Mike Righy

Address: 2820 Dorr Ave Ste 200 Fairfax, VA 22031

Phone Number: 703.846.0058

Email: Mike.Righy@wmmi.net

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

Project Name: BLM Durango

Samplers Signature: _____

Table 1. - Matrix Type

- 1 = Surface Water
- 2 = Ground Water
- 3 = Soil/Sediment, 4 = Prod. W., 5 = Oil
- 6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY

GAL JOB #

1308-065

Lab Name: <u>Green Analytical Laboratories</u>		(970) 247-4220		FAX (970) 247-4227										
Address: <u>75 Suttle Street, Durango, CO 81303</u>		<u>www.greenanalytical.com</u>												
Sample ID	Collection		Miscellaneous			Preservative(s)			Analyses Required	Comments				
	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3			HCL	H2SO4	NAOH	Other (Specify)
1. <u>Reco-1</u>	<u>8/14/13</u>	<u>1400</u>	<u>GR</u>	<u>2</u>	<u>3</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>See Attached</u>	<u>#18</u>	<u>15.5 sec on ice</u>
2.														
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
Relinquished by: <u>David Righy</u>		Date: <u>8/16/13</u>	Time: _____	Received by: <u>Dustin Judd</u>		Date: <u>08-16-13</u>	Time: <u>1620</u>							
Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____							
Relinquished by: _____		Date: _____	Time: _____	Received by: _____		Date: _____	Time: _____							

* Sample Reject: [] Return [] Dispose [] Store (30 Days)

Project Information

Waste Water Management, Inc.

2820 Dorr Ave, Ste 200

Fairfax, VA 22031

Laboratory PM: Debbie Zufelt

Phone: (703) 846-0098

Fax:-

8/6/2013

Project Name: EC Durango Pilot

Project Number: BLM

Client PM: Mike Rigby

Comments:

Invoice To: Waste Water Management, Inc.

Invoice Bid: BLM

Invoice Manager: Mike Rigby

Analysis	Comment
Alkalinity, Bicarbonate	
Alkalinity, Carbonate	
Alkalinity, Hydroxide	
Alkalinity, Total	
Aluminum Dissolved by ICP	
Aluminum Total Recoverable by	
Cadmium Dissolved by ICPMS	
Cadmium Total Recoverable by I	
Calcium Dissolved by ICP	
Chloride	
Copper Dissolved by ICPMS	
Copper Total Recoverable by ICF	
Iron Dissolved by ICP	
Iron Total Recoverable by ICP	
Lead Dissolved by ICPMS	
Lead Total Recoverable by ICPM	
Magnesium Dissolved by ICP	
Manganese Dissolved by ICPMS	
Manganese Total Recoverable by	
Mercury Dissolved by CVAA	
Mercury Total by CVAA	
Potassium Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate	
Zinc Dissolved by ICPMS	
Zinc Total Recoverable by ICPM	

200-2

Just Dissolved CATS
per Mike Rigby

Add: Conductivity, TDS, pH, ~~Mn~~, ~~H₂S~~, Silica, ~~SO₄~~, Ca, K
Mg, PO₄